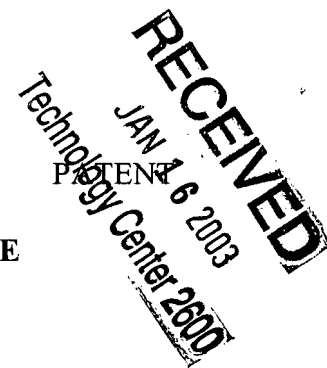


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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Applicant : Arviv et al.) Group Art Unit 2682
)
App. No. : 09/938,216)
)
Filed : August 24, 2001)
)
For : ASYMMETRIC ADAPTIVE)
MODULATION IN A)
WIRELESS)
COMMUNICATION)
SYSTEM)
)
Examiner : Kamran Afshar)
)

INFORMATION DISCLOSURE STATEMENT

United States Patent and Trademark Office
P.O. Box 2327
Arlington, VA 22202

Dear Sir:

Enclosed is form PTO-1449 listing references that are also enclosed. This Information Disclosure Statement is being filed after the mailing date of a final action under 37 C.F.R. § 1.113 or after the mailing date of a Notice of Allowance under § 1.311. This Statement is accompanied by the fee set forth in 37 C.F.R. § 1.17(p). The Commissioner is hereby authorized to charge any additional fees which may be required or to credit any overpayment to Account No. 11-1410. A certification under 37 C.F.R. § 1.97(e) is set forth below.

CERTIFICATION UNDER 37 C.F.R. § 1.97(e)(1)

I hereby certify that each item of information contained in this Statement was first cited in a communication from a foreign Patent Office in a counterpart foreign application not more

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Appl. No. : 09/938,216
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than three (3) months days/months prior to the filing of this Information Disclosure Statement.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 1/9/03

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